

## **Amendments to the Specification**

Please delete the title on page 1, line 1 and replace with the following:

### **Method for Assembling Sequences**

Please delete the paragraph starting on page 2, line 4 with “Phrap is a ...” and ending on page 2, line 9 with “...html):.” and replace with the following:

Phrap is a computer program developed at the University of Washington to create assemblies from sets of DNA or RNA sequence reads. Any other program designed to create assemblies from reads may also be incorporated with the present invention. Phrap was originally created as a tool for the scientists of the Human Genome Project who needed to join reads together into assemblies. The algorithm as taught by the creators of Phrap used in the current method of Phrap is as follows (~~<http://www.phrap.org/phrap-docs/phrap.html>~~):